

# EAST Search History

10/560 216

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2029661	MRI or magnetic adj resonance adj imaging or NMR or nuclear magnetic resonance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:46
L2	230217	MRI or (magnetic adj resonance adj imaging) or NMR or (nuclear adj magnetic adj resonance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:47
L3	126876	(split\$4 or half\$4 or divid\$4) near3 (top or cover\$4 or hous\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:48
L4	1077364	(slid\$4 or mov\$4 or shift\$4 or glid\$4 or coupl\$4) near3 (pin or tack or track or guide or slot or opening or hole or lock\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:52
L5	284940	interlock\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:50
L6	1093384	(slid\$4 or mov\$4 or shift\$4 or glid\$4 or coupl\$4) near3 (pin or tack or track or guide or slot or opening or hole or lock\$4 or peg or ramp)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:52
L7	1224824	(electric\$4 or mechanic\$4) near3 (connect\$4 or coupl\$4 or lock\$4 or interlock\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L8	280	2 and 3 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L9	204	8 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L10	12	("4791372"   "4923459"   "4968936"   "5261403"   "5274332"   "5519321"   "5706812"   "5945827"   "5971997"   "6011393"   "6021343").PN. OR ("6198961"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/27 17:09
L11	76	8 not 9	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/27 17:09

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2029661	MRI or magnetic adj resonance adj imaging or NMR or nuclear magnetic resonance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:46
L2	230217	MRI or (magnetic adj resonance adj imaging) or NMR or (nuclear adj magnetic adj resonance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:47
L3	126876	(split\$4 or half\$4 or divid\$4) near3 (top or cover\$4 or hous\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:48
L4	1077364	(slid\$4 or mov\$4 or shift\$4 or glid\$4 or coupl\$4) near3 (pin or tack or track or guide or slot or opening or hole or lock\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:52
L5	284940	interlock\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:50
L6	1093384	(slid\$4 or mov\$4 or shift\$4 or glid\$4 or coupl\$4) near3 (pin or tack or track or guide or slot or opening or hole or lock\$4 or peg or ramp)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:52
L7	1224824	(electric\$4 or mechanic\$4) near3 (connect\$4 or coupl\$4 or lock\$4 or interlock\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L8	280	2 and 3 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L9	204	8 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/27 16:55
L10	12	("4791372"   "4923459"   "4968936"   "5261403"   "5274332"   "5519321"   "5706812"   "5945827"   "5971997"   "6011393"   "6021343").PN. OR ("6198961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/27 17:09
L11	76	8 not 9	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/27 17:09

2/27/2007 12:11:29 PM

2/27/2007 13:54:09 PM

[File 2] INSPEC 1898-2006/Feb W3  
 [File 155] MEDLINE(R) 1951-2006/Feb 27  
 [File 5] Biosis Previews(R) 1969-2006/Feb W3  
 [File 6] NTIS 1964-2006/Feb W1 DSSSSSSS  
 [File 8] Ei Compendex(R) 1970-2006/Feb W3  
 [File 73] EMBASE 1974-2006/Feb 27 [File 94] JICST-EPlus 1985-2006/Dec W1  
 [File 94] JICST-EPlus 1985-2006/Dec W2  
 [File 95] TEME-Technology & Management 1989-2006/Feb W4  
 [File 35] Dissertation Abs Online 1861-2006/Feb  
 [File 144] Pascal 1973-2006/Feb W1  
 [File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Jan  
 [File 34] SciSearch(R) Cited Ref Sci 1990-2006/Feb W3  
 [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 [File 65] Inside Conferences 1993-2006/Feb W4  
 [File 162] Global Health 1983-2006/Jan  
 [File 164] Allied & Complementary Medicine 1984-2006/Feb  
 [File 357] Derwent Biotech Res. 1982-2006/Feb W4  
 [File 23] CSA Technology Research Database 1963-2006/Feb  
 [File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Feb  
 [File 294] ONTAP(R) SciSearch(R) Cited Ref Science  
 [File 256] TecInfoSource 82-2006/Feb (c) 2006 Info.Sources Inc  
 [File 987] TULSA (Petroleum Abs) 1965-2006/Feb W2  
 [File 105] AESIS 1851-2001/Jul  
 [File 103] Energy SciTec 1974-2006/Feb B2  
 [File 58] GeoArchive 1974-2005/Jun  
 [File 292] GEOBASE(TM) 1980-2006/Feb W4  
 [File 89] GeoRef 1785-2006/Feb B2  
 [File 239] Mathsci 1940-2006/Apr  
 [File 56] Computer and Information Systems Abstracts 1966-2006/Aug  
 [File 57] Electronics & Communications Abstracts 1966-2006/Aug

Set	Items	Description
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S1	2821271	S MAGNETIC(3N) RESONA???? OR MRI OR M()R()I OR MAGNETIC() RESONANCE() IMAG???? OR (MR OR M()R) (3N) IMAG???? OR (MAGNETIC OR PARALLEL) (2N) IMAG???? OR NMR OR N()M()R OR NUCLEAR() MAGNETIC OR FTMRI OR F(T())N()M()R OR FTMRI OR MAGNETORESONA???? OR PMR OR P()M()R OR PROTON() MAGNETIC() RESONA???? OR PARAMAGNETIC(3N) RESONA???? OR MAGNETIC(3N) RELAX???? OR FERROMAGNETIC(3N) RESONA???? OR MAGNETIC(3N) SPECTRO???? OR MRA OR M()R()A OR MAGNETIC() RESONANCE() ANGIOGRAPH???? OR CSI OR C()S()I OR CHEMICAL() SHIFT() IMAG???? OR EPR OR E()P()R OR ELECTRON() PARAMAGNETIC() RESONANCE OR FMRI OR F()M()R()I OR FUNCTION??? (2N) IMAG??? OR ESR OR E()S()R OR ELECTRON() SPIN() RESONA??? OR SPIN(2N) RESONA????
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S2	39316	S (SPLIT???? OR SLIT OR DIVID???? OR HALF???? OR OPEN) (3N) (TOP OR BOTTOM???? OR TOPMOST OR UPPER????)
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S3	6644003	S B1 OR B()1 OR B()SUB()1 OR FIELD???? (3N) MAP???? OR RADIO? ? (3N) FREQUENC???? OR (MAGNET???? OR ELECTROMAGNET???? OR RF? ? OR ELECTRIC???? OR PULS???? OR REFOCUS???? OR IMAG????) (3N) (FIELD???? OR POWER???? OR PULS???? OR SEQUENC???? OR EXCIT???? OR STIMULAT???? OR SWITCH???? OR TRANSCEIV???? OR SIGNAL????) OR SAR OR S()A()R OR SPECIFIC() ABSOR???? ( ) RATE? ? OR R()F OR RF OR RADIOFREQUENC???? OR RFSP OR R()F()S()P OR SSFP OR S()S()F()P OR STEADY() STATE() FREE() PRECESSION OR FREE(3N) PRECESS????
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S4	7677911	S COIL???? OR ANTENNAE OR ANTENNA OR AERIAL OR RECEIV???? OR TRANSCEIV???? OR TRANSMI???? OR WIRING OR WINDING
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S5	22665286	S HOUS???? OR MOUNT???? OR STAND???? OR SUPPORT???? OR BOTTOM???? OR REST???? OR TABLE OR BASE OR COVER???? OR ENCLOS???? OR ENCAS????
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S6	9256	S (CONNECT???? OR CONTACT OR CONDUCT????) (3N) (PIN OR PINS OR TACK OR TACKS OR PRONG??? OR PEG OR PEGS)
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S7	70091	S (SLID???? OR MOVING OR MOVABLE OR GLID???? OR SHIFT?? OR COUPL????) (3N) (PIN OR PINS OR TACK OR TACKS OR PRONG??? OR PEG OR PEGS OR TRACK???? OR GUID???? OR RECEIV???? OR RAMP????) OR (GUID??? OR COUPL???) (3N) (TRACK??? OR LOCK???)
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2/27/2007 13:54:09 PM

S8 5623956 S (ELECTRIC???? OR MECHANIC?????) (3N) (LOCK???? OR INTERLOCK???? OR CONNECT???? OR COUPL????) OR CONNECT???? OR INTERLOCK???? OR INTER() LOCK???? OR COUPL????

S9 41590 S CC=(A3240 OR A3325 OR A7600 OR A0758 OR A8760I OR B7510N)  
S10 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8  
S11 0 S S1 AND S2 AND S5 AND S7  
S12 363 S S1 AND S2  
S13 0 S S12 AND S7  
S14 35 S S12 AND S8  
S15 20 S S14 AND S9  
S16 51 S S1 AND S2 (3N) S5  
S17 0 S S16 AND S7  
S18 0 S S16 AND S6  
S19 7 S S16 AND S8  
S20 5 RD (unique items)  
S21 15 S S16 AND S3  
S22 6 RD (unique items)  
S23 2 S S16 AND S4  
S24 1 RD (unique items)  
S25 94 S S1 (3N) S7 AND S8  
S26 0 S S25 AND S2  
S27 94 S S25 AND S8  
S28 0 S S27 AND S6  
S29 24 S S27 AND S3  
S30 13 S S29 AND S4  
S31 8 RD (unique items)  
S32 0 S S1 AND S2 AND S7  
S33 5 S S29 AND S5  
S34 4 RD (unique items)  
S35 292 S S1 AND S5 AND S7  
S36 152 S S35 AND S8  
S37 1 S S36 AND S6  
S38 46 S S36 AND S3  
S39 28 S S38 AND S4  
S40 14 RD (unique items)  
S41 606 S S1 AND S7 AND S8  
S42 0 S S41 AND S2  
S43 5 S S20 NOT S22  
S44 6 S S22 NOT S20  
S45 0 S S24 NOT (S20 OR S22)  
S46 8 S S31 NOT (S20 OR S22 OR S24)  
S47 1 S S34 NOT (S20 OR S22 OR S24 OR S31)  
S48 1 S S37 NOT (S20 OR S22 OR S24 OR S31 OR S34)  
S49 10 S S40 NOT (S20 OR S22 OR S24 OR S31 OR S34 OR S37)  
S50 15 S S15 NOT (S20 OR S22 OR S24 OR S31 OR S34 OR S37 OR S40)  
S51 15 RD (unique items)

2/27/2007 2:45:03 PM  
2/27/2007 3:37:17 PM

[File 344] Chinese Patents Abs Jan 1985-2006/Jan  
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)  
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607  
[File 371] French Patents 1961-2002/BOPI 200209

**Set Items Description**

**S1** 69296 S MAGNETIC(3N)RESONA???? OR MRI OR M()R()I OR MAGNETIC()RESONANCE()IMAG???? OR (MR OR M()R)(3N)IMAG???? OR (MAGNETIC OR PARALLEL)(2N)IMAG???? OR NMR OR N()M()R OR NUCLEAR()MAGNETIC OR FTNMR OR F()T()N()M()R OR FTMRI OR MAGNETORESONA???? OR PMR OR P()M()R OR PROTON()MAGNETIC()RESONA???? OR PARAMAGNETIC(3N)RESONA???? OR MAGNETIC(3N)RELAX???? OR FERROMAGNETIC(3N)RESONA???? OR MAGNETIC(3N)SPECTRO???? OR MRA OR M()R()A OR MAGNETIC()RESONANCE()ANGIOGRAPH???? OR CSI OR C()S()I OR CHEMICAL()SHIFT()IMAG???? OR EPR OR E()P()R OR ELECTRON()PARAMAGNETIC()RESONANCE OR FMRI OR F()M()R()I OR FUNCTION??? (2N)IMAG??? OR ESR OR E()S()R OR ELECTRON()SPIN()RESONA??? OR SPIN(2N)RESONA????

**S2** 100667 S (SPLIT???? OR SLIT OR DIVID???? OR HALF???? OR OPEN)(3N)(TOP OR BOTTOM???? OR TOPMOST OR UPPER????)

**S3** 3338485 S B1 OR B()1 OR B()SUB()1 OR FIELD????(3N)MAP???? OR RADIO? ?(3N)FREQUENC???? OR (MAGNET???? OR ELECTROMAGNET???? OR RF? ? OR ELECTRIC???? OR PULS???? OR REFOCUS???? OR IMAG????)(3N)(FIELD???? OR POWER???? OR PULS???? OR SEQUENC???? OR EXCIT???? OR STIMULAT???? OR SWITCH???? OR TRANSCEIV???? OR SIGNAL????) OR SAR OR S()A()R OR SPECIFIC()ABSOR????()RATE? ? OR R()F OR RF OR RADIOFREQUENC???? OR RFSP OR R()F()S()P OR SSFP OR S()S()F()P OR STEADY()STATE()FREE()PRECESSION OR FREE(3N)PRECESS????

**S4** 5034953 S COIL???? OR ANTENNAE OR ANTENNA OR AERIAL OR RECEIV???? OR TRANSCEIV???? OR TRANSMI???? OR WIRING OR WINDING

**S5** 8403902 S HOUS???? OR MOUNT???? OR STAND???? OR SUPPORT???? OR BOTTOM???? OR REST???? OR TABLE OR BASE OR COVER???? OR ENCLOS???? OR ENCAS????

**S6** 84516 S (CONNECT???? OR CONTACT OR CONDUCT????)(3N)(PIN OR PINS OR TACK OR TACKS OR PRONG??? OR PEG OR PEGS)

**S7** 272851 S (SLID???? OR MOVING OR MOVABLE OR GLID???? OR SHIFT?? OR COUPL????)(3N)(PIN OR PINS OR TACK OR TACKS OR PRONG??? OR PEG OR PEGS OR TRACK???? OR GUID???? OR RECEIV???? OR RAMP????) OR (GUID??? OR COUPL???) (3N)(TRACK??? OR LOCK???)

**S8** 5301970 S (ELECTRIC???? OR MECHANIC????)(3N)(LOCK???? OR INTERLOCK???? OR CONNECT???? OR COUPL????) OR CONNECT???? OR INTERLOCK???? OR INTER()LOCK???? OR COUPL????

**S9** 90463 S IC=(A61B-005 OR G01R-033/34)

**S10** 9156 S MC=(S01-E02A2 OR S01-E02A8A OR S03-E07A OR S05-D02B1 OR V02-F01G OR V02-F03A3 OR V02-F03X OR W02-B10)

**S11** 1 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8

**S12** 2 S S1 AND S2 AND S7 AND S8

**S13** 28 S S1 AND S2 AND S3 AND S4 AND S5

**S14** 1 S S13 AND S7

**S15** 1 S S13 AND S6

**S16** 19 S S13 AND S8

**S17** 7 S S16 AND S9

**S18** 10 S S16 AND S10

**S19** 1 S S1(3N)S7 AND S2 AND S5

**S20** 2 S S1 AND S2 AND S7

**S21** 5 S S1 AND S6 AND S7 AND S8

**S22** 1 S S12 NOT S11

**S23** 0 S S14 NOT (S11 OR S12)

**S24** 0 S S15 NOT (S11 OR S12 OR S14)

**S25** 7 S S17 NOT (S11 OR S12 OR S14 OR S15)

**S26** 5 S S18 NOT (S11 OR S12 OR S14 OR S15 OR S17)

**S27** 0 S S19 NOT (S11 OR S12 OR S14 OR S15 OR S17 OR S18)

**S28** 0 S S20 NOT (S11 OR S12 OR S14 OR S15 OR S17 OR S18 OR S19)

**S29** 4 S S21 NOT (S11 OR S12 OR S14 OR S15 OR S17 OR S18 OR S19 OR S20)

22/9/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0005741112 *Drawing available*

WPI Acc no: 1991-355842/199149

XRPX Acc No: N1991-272347

**RF quadrature coils in MRI appts. - has upper and lower halves and conductive ring using two chocks and pin diodes for detuning circuit**

Patent Assignee: PHILIPS ELECTRONICS NV (PHIG); PHILIPS GLOEILAMPENFAB NV (PHIG)

Inventor: BEZJAK G; BEZJAK G W

Patent Family ( 6 patents, 4 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 459569	A	19911204	EP 1991201229	A	19910523	199149	B
US 5075624	A	19911224	US 1990530127	A	19900529	199203	E
EP 459569	A3	19920610	EP 1991201229	A	19910523	199332	E
EP 459569	B1	19970319	EP 1991201229	A	19910523	199716	E
DE 69125209	E	19970424	DE 69125209	A	19910523	199722	E
			EP 1991201229	A	19910523		
JP 3164376	B2	20010508	JP 1991123967	A	19910528	200128	E

#### Alerting Abstract EP A

A magnetic resonance imaging (MRI) system is constructed with coil structures (10) having **upper half** (12) and lower half (14) assemblies which are semicircular cylinders latched together as a circular cylindrical coil by latches (16). The conductive ring (18) at one end of the structure and the pair of spaced circular rings (20,22) at the other end are **coupled** via rods (28) to form the coil structure.

A detune circuit includes parallel capacitances selectively RF **coupled** by PIN diodes to the second and third rings.

ADVANTAGE - Only requires two chokes to bias all PIN diodes.

#### Equivalent Alerting Abstract US A

A first circular ring of a given inductance is **coupled** to second and third circular rings by a number of equally spaced parallel rods to form a birdcage coil. The second and third rings have a combined inductance the same as that of the first ring and are located adjacent to each other at an end of the rods opposite the first ring. A tube-detune circuit is located at the end of and **coupled** each of the rods to the second and third rings. This circuit includes parallel capacitances whose combined value is the same as the capacitance **coupling** the rods to the first ring to selectively tune the coil to a given radio-frequency.

PIN diodes selectively if **couple** the parallel capacitances respectively to the second and third rings. Direct current diode bias voltages are applied to the second and third rings which act as busses for the bias voltages. The second and third rings are split in half and capacitively **coupled** to permit applying relatively higher (DC) bias voltages to the diodes. The coil is **divided** into **upper** and lower halves with open space between the rods of the **upper half** to permit access to a patient's head and for patient comfort during examination.

USE - MRI appts. @(10pp)@

Title Terms /Index Terms/Additional Words: RF; QUADRATURE; COIL; MRI; APPARATUS; UPPER;

25/9/3 (Item 3 from file: 347) [Links](#)

JAPIO

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04870943 \*\*Image available\*\*

# **HIGH-FREQUENCY SIGNAL RECEIVING COIL OF MAGNETIC RESONANCE IMAGING SYSTEM**

**Pub. No.:** 07-163543 [JP 7163543 A ]

**Published:** June 27, 1995 (19950627)

**Inventor:** NAGAI SHIZUKA

**Applicant:** HITACHI MEDICAL CORP [420143] (A Japanese Company or Corporation), JP (Japan)

**Application No.:** 05-342202 [JP 93342202]

**Filed:** December 15, 1993 (19931215)

**International Class:** [ 6 ] A61B-005/055; G01R-033/34

**JAPIO Class:** 28.2 (SANITATION -- Medical); 46.1 (INSTRUMENTATION -- Measurement)

## **ABSTRACT**

**PURPOSE:** To improve the S/N of the high-frequency signal **receiving coil** of a **magnetic resonance imaging** system by changing the diameter of a **coil** according to the size of the examinee.

**CONSTITUTION:** The high-frequency signal **receiving coil** 14b which is disposed within the signal **receiving** system of the **magnetic resonance imaging** system and is arranged to **enclose** the circumference of the examinee with a conductive roops is formed by dividing its conductive loops 22 to an upper part 22a and a lower part 22b. The **upper divided** part 22a is made **couplable** to the lower divided part 22b by **connectors** 23a, 23b so that the diameter of the **coil enclosing** the circumference of the examinee is changed according to the size of the examinee. As a result, an optimum filling factor is obtained by changing the diameter of the **coil** according to the size of the examinee, by which the S/N is improved, thus the image quality of tomographic images is improved.

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2/27/2007 4:16:23 PM

2/27/2007 4:31:13 PM

[File 342] Derwent Patents Citation Indx 1978-07/200704

s pn=ep 924530

S1 1 S PN=EP 924530

map pn/ct=

SearchSave "SC516" stored

1 Select Statement, 3 Search Term(s)

SearchSave SC516

1 SearchSave(s), 3 Search Term(s)

ex

EX: S CT=EP 924530 + CT=JP 2000107153 + CT=US 5952830

2 CT=EP 924530

0 CT=JP 2000107153

11 CT=US 5952830

S2 13 S CT=EP 924530 + CT=JP 2000107153 + CT=US 5952830

map pn

SearchSave "SC517" stored

5 Select Statements, 48 Search Term(s)

SearchSave SC517

1 SearchSave(s), 48 Search Term(s)

[File 344] Chinese Patents Abs Jan 1985-2006/Jan

[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)

[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607

[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	21	S1:S4 FROM 344, 347, 350, 371
S2	1	S S1 AND SPLIT()TOP
S3	0	S S1 AND INTERLOCK????
S4	1	S S1 AND SLID??? (2N) TRACK???
S5	0	S S1 AND GUID??? (2N) TRACK???
S6	2	S S1 AND (ELECTRIC???? OR MECHANIC????) (3N) (COUPL???? OR CONNECT????)
S7	0	S S1 AND (SPLIT??? OR HALF???) (2N) (HOUS??? OR MOUNT??? OR COVER???)
S8	13	S S1 AND IC=(A61B-005 OR G01R-033/34)
S9	12	S S1 AND MC=(S01-E02A2 OR S01-E02A8A OR S03-E07A OR S05-D02B1 OR V02-F01G OR V02-F03A3 OR V02-F03X OR W02-B10)
S10	0	S S4 NOT S2
S11	1	S S6 NOT (S2 OR S4)
S12	12	S S8 NOT (S2 OR S4 OR S6)
S13	3	S S9 NOT (S2 OR S4 OR S6 OR S8)



12/9/2 (Item 2 from file: 347) [Links](#)

JAPIO

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07394580 \*\*Image available\*\*

**RF SHIELDING METHOD AND APPARATUS FOR OPEN MRI SYSTEM**

**Pub. No.:** 2002-263081 [JP 2002263081 A ]

**Published:** September 17, 2002 (20020917)

**Inventor:** BOSKAMP EDDY B

**Applicant:** GE MEDICAL SYSTEMS GLOBAL TECHNOLOGY CO LLC

**Application No.:** 2001-388955 [JP 2001388955]

**Filed:** December 21, 2001 (20011221)

**Priority:** 00 746931 [US 2000746931], US (United States of America), December 22, 2000 (20001222)

**International Class:** A61B-005/055; G01R-033/422

**ABSTRACT**

**PROBLEM TO BE SOLVED:** To provide an RF shielding technique for an open MRI system.

**SOLUTION:** An RF shield (100) includes a first portion (102) disposed over a gradient field generating set (26, 28, 30) and a skirt-like second portion (104) that wraps around a lateral structure such as a primary magnet (24) and a support. The two portions are joined to one another to form an integral RF shield that limits loss of RF energy both through the gradient field elements and through the primary magnet and a support structure.

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